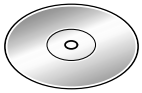
NAVIGATION SYSTEM

Contents, Accessories, and Laser

Accessories

Please contact an Authorized Mazda Dealer if you are missing any of the following accessories.

- Map Disc



- Owner's Manual

CAUTION:
THIS PRODUCT IS A CLASS I LASER PRODUCT .
HOWEVER THIS PRODUCT USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THIS PRODUCT CORRECTLY AS INSTRUCTED. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Laser products:
Wave length: 650 nm
Laser power: No hazardous radiation is emitted with safety protection.

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Safety Information

■Read this owner's manual for your Navigation System carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Mazda assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

■This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operation. The meanings of the pictographs are explained below. It is important that you fully understand the pictographs and explanations in order to use this manual and the system properly.

Warning	**Warning**	The presence of this Warning symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in severe injury or death.

Warnings

■**Do not keep your eyes fixed on the monitor screen or operate the system while driving.**
Do not change the settings and destination locations while driving. Minimize the time spent on viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before operating the system.

■**Always obey local traffic regulations.**
Your guided route may include roads that are not open to vehicles or are closed due to traffic regulations. Comply with the local traffic regulations and take another route.

■**Do not use the unit when it is out of order.**
If the unit is out of order (no image, no sound) or in an abnormal state (has foreign matter in it, is exposed to water, is smoking, or smells), then turn it off immediately and consult with an Authorized Mazda Dealer. Using the unit in out-of-order condition may lead to accidents, fires, or electric shocks.

■**Use the proper power supply.**
This product is designed for operation with a negative grounded 12 V DC battery system.

■**Leaving children in a vehicle with the ignition key is dangerous.**
This could result in someone being badly injured or even killed. They could play with power windows or other controls, or even make the vehicle move. Don’t leave the keys in your vehicle with children.

Warning

The presence of this Warning symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in severe injury or death.

Warnings

■ **Do not disassemble.**

Do not disassemble the product or attempt to repair it yourself. If the product needs to be repaired, take it to an Authorized Mazda Dealer.

■ **Never attempt to play the map disc on an audio player.**

Do not attempt to play the map disc on other CD (DVD) player. The loud sound produced may damage your hearing and your speakers.

Safety Information

Caution	The presence of this Caution symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in injury or material damage.

Cautions

■**Do not use the product where it is exposed to water, moisture, or dust.**
Exposure to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

■**Keep the voice guidance volume at an appropriate level.**
Keep the volume level low enough to be aware of road and traffic conditions while driving.

■**Protect the Deck Mechanism.**
Do not insert any foreign objects into the slot of this unit.

■**This navigation system is designed use for exclusively in automobiles.**
This navigation system should only be installed in an automobile. Do not install it in a ship, aircraft, or any other vehicles except an automobile. Do not use it detached from the vehicle.

■**Do not insert or allow your hand or fingers to be caught in the unit.**
To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

SOFTWARE (MAP DISC) LICENCE AGREEMENT

PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING NAVTECH PRODUCT

This software and data (“Software”) is provided for your personal, non-commercial use only. Copyright and other Laws protect it.

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Introduction

Features

This DVD Navigation System combined with the **NAVTECH's** MAP Disc has following special features:

- **Detailed maps are used.**
  Selected destinations will be displayed for easy viewing.
- **Desired places or facilities can be stored in the memory.**

Notes

- DVD audio and video will not work by this unit.
- This unit does not support all Video CD and CD formats.

Caution

■Map Disc

This unit supports only DVD-SDAL-formatted map disc (SEAMLESS) that NAVTECH has specifically designed for this unit. Mazda shall not be liable for any damages caused by using other formatted discs. Make sure to use only the discs specified for this product.

Use This Product Safety

■Avoid excessive moisture

Do not expose the product to water or excessive moisture. This could cause electrical shorts, fire or other damage.

■Extremely low or high temperatures may interfere with normal operation

The inside of the vehicle can become very hot or cold when it is parked for extended periods in direct sunlight or in cold places with the engine turned off. The navigation system may not operate normally under such circumstances. Turn off the navigation system until the inside of the vehicle has cooled down or warmed up. If the system does not operate thereafter, consult an Authorized Mazda Dealer.

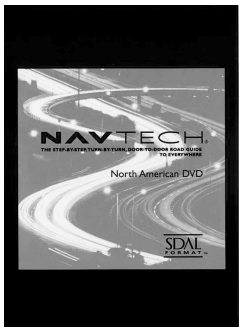
Navigation System

This navigation system utilizes GPS* satellite signals, Speed sensor and Gyrosensor to track and display your vehicle's current position, and to guide you from your starting point to your destination along a calculated route.

* : GPS (Global Positioning System) is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Defense Department.

Map Related Issues

Customer Service
If you need help with the operation your Mazda navigation system, want to report a map database error or wish to obtain a new map DVD, please call 1-888-NAV-MAPS (1-888-628-6277).



Latest map DVD
Map content is constantly changing due to the addition of new roads, points of interest, traffic restrictions, etc. While every effort is made to supply the most accurate DVD map, it is not always possible for the DVD map to match the current roadways. Not all map areas are covered to the same level of detail. Some areas that include private roads may not be included on the database. Map DVD's are updated on a regular basis to check availability, please call 1-888-NAV-MAPS (1-888-628-6277).

Notes

- Please have the map and software version numbers available in advance. This information can be found by using the following procedure:

① Press MENU on the remote control.

② Select Setup Menu and press ENTER

③ Use the remote control joystick to scroll through the menu options, select System Information and press ENTER

④ Select Version and press ENTER
Map and software versions are now displayed.

- For further assistance please refer to pages 30 in the instruction book.

Names and Functions

Joystick

ENTER

- Selects items by tilting it up, down, right, and left.
- Scrolls map.

RET key

RET

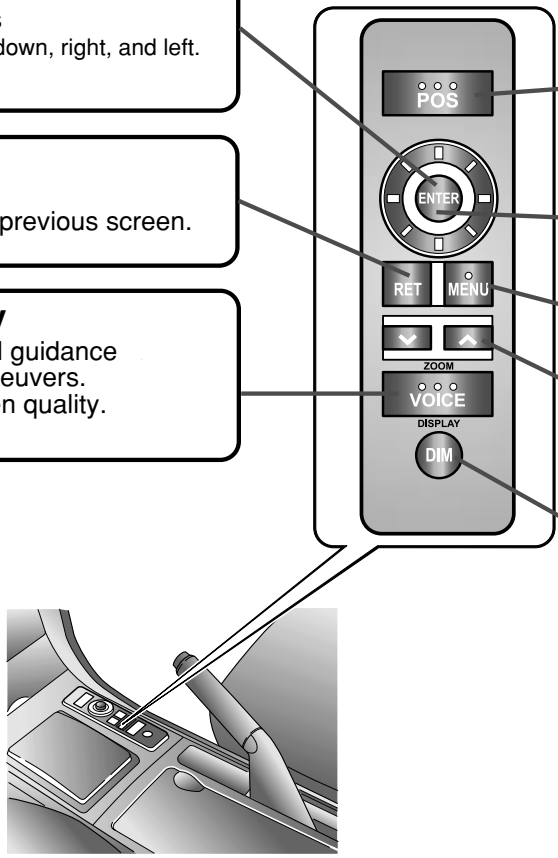
Returns to the previous screen.

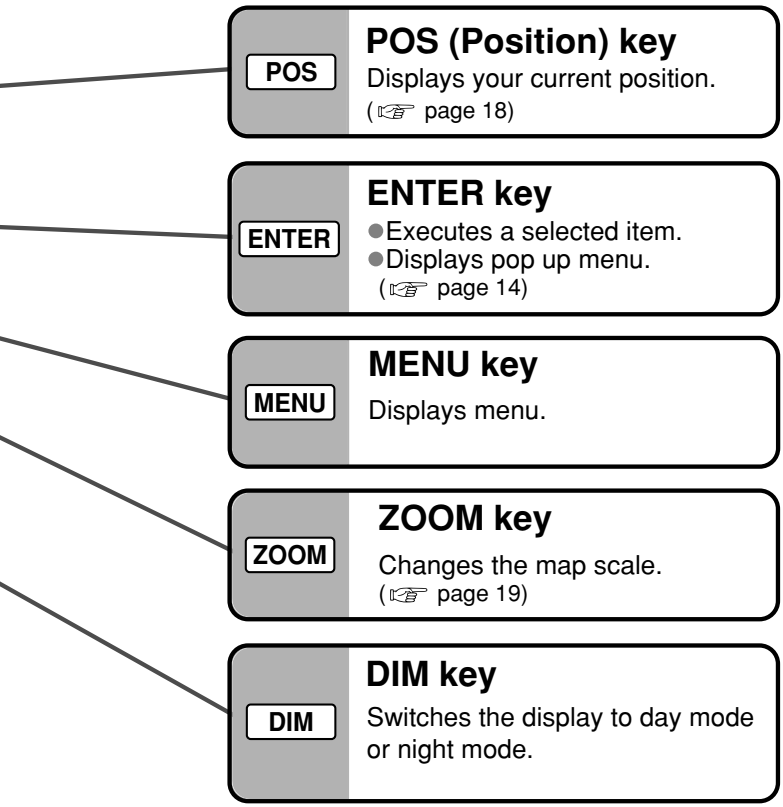
VOICE key

VOICE

- Initiates vocal guidance for route maneuvers.
- Adjusts screen quality.

(☞ page 16)





Switching the Display Mode

When the headlight switch is in the ● or ≣D position, the display switches to night mode.
Press the DIM key to switch to day mode.
To return to night mode, press the DIM key again.

Before Use Activation

Insert the map disc into the unit to start the Mobile Navigation System.

Caution

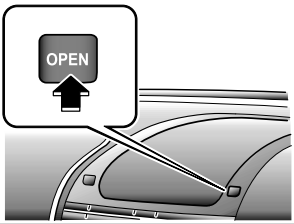
■ **Map Disc**

- Only map discs with a NAVTECH DVD-SDAL format that are seamless supported can be used with this unit. Use DVD-SDAL-formatted map discs (SEAMLESS) that NAVTECH has specifically designed for this unit.
- Refer to "Handling and Care of Map Discs" to know how to handle a map disc (☞ page 41).

Notes

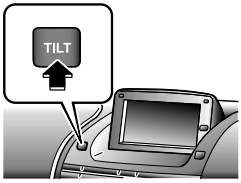
- The map disc cannot be inserted or ejected while the ignition switch is in the OFF position.
- Remember that the battery can run down if the ignition switch is kept in the ON or ACC position for a long time while the engine not running.

1 Turn the ignition switch to the ON position and press OPEN to open the display.



Notes

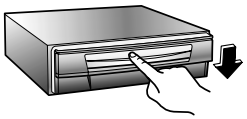
- The display angle can be adjusted by pressing TILT .



When the TILT is pressed, the display angle changes in stages.

- Press OPEN to close the display.

2 Slide the front cover down of the unit.

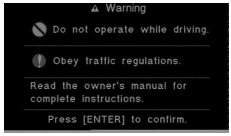


Notes

- The main unit is located in the glovebox compartment.
- Condensation may form on the optical lens or the map disc inside the unit when the temperature in the vehicle increases in a short time such as when heating the car on a cold day. This condensation may cause malfunctions. If so, then unload the map disc and do not operate the unit for approximately 1 hour. Wipe the condensation off the map disc with a soft cloth. If the unit does not operate correctly after 1 hour, then consult an Authorized Mazda Dealer.

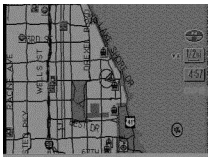
3 Insert the map disc with the printed side facing up, and close the front cover by pushing it up.

Opening screen


Warning
Do not operate while driving.
Obey traffic regulations.
Read the owner's manual for complete instructions.
Press [ENTER] to confirm.

[Warning] screen

4 Read the [Warning] ENTER



●Current position map appears.

Note

The map displayed when you first turn on the unit might show a different area than where your vehicle is currently located. The map display will change to your current area once GPS positioning signals are received.

5 Select a language (Default: English).For details (☞ page 33)

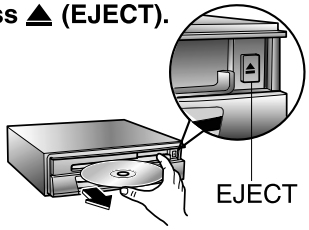
MENU → Select Setup Menu → ENTER → Select System Setup →
ENTER → Select a Language → ENTER

Notes

●The following languages are available for the display and voice guidance:
English (Default), French
●Once selected, the system should stay with your language choice.

Removing the Map Disc

When the ignition switch is in the ACC position, slide the front cover, and press ⏏ (EJECT).



Caution

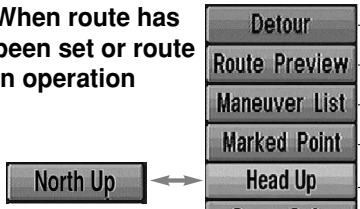
●Do not get your hand or fingers caught in moving parts or in the disc slot. This can cause injuries. Children are inquisitive, try to install or remove the map disk without infants looking on.
●Keep the front panel of the navigation system closed except when loading or unloading a map disc. Dust can cause malfunction.

Pop Up Menu

Pop Up menu appears when pressing ENTER .

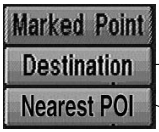
This function is mainly used during route searches.

■When route has been set or route in operation



- Detour — Route change (☞ page 26)
- Route Preview — Route display (☞ page 25)
- Maneuver List — Route list display
- Marked Point — Marked point registration (☞ page 28)
- North Up ↔ Head Up — Map orientation change (☞ page 19)
- Stop Calc — Stop route Search (☞ page 25)
- Reroute — Rerouting
- Calc Method — **Note** Appears only when the auto reroute function (☞ page 32)is inactivated.
- Volume — Change of routing Search method (☞ page 21)
- Delete Dest. — Change volume
- Delete Destination (☞ page 25)

■When scroll map is displayed



- Destination — Direct destination input with the joystick (☞ page 24)
- Nearest POI — Near POI (Point of Interest) search (within a radius of about 6 mile) (☞ page 24)

●Example : When Detour is selected.

Highlighted — Detour submenu

Note

This function is not available on intersection zoom maps.

Automatic distance correction

The mobile navigation system uses GPS data for distance correction automatically. It must be properly calibrated for accurate operation. Perform calibration in any of the following circumstances:

1. When using the navigation system for the very first time after installing the system.
2. When the navigation system is transferred to another vehicle.
3. When the tire pressure is changed, tires are rotated, the spare tire is used, tire size, or wheel diameter is changed.
4. When deleting the position correction learning results.

Notes

- Start the driving after closing the opening screen as much as possible. The system is ready to start during opening screen.
- The vehicle position indicator may disappear temporarily after the speed is increased depending on the vehicle model. This is a normal phenomenon indicating that the system is calculating the distance correction.

■ Resetting automatic distance correction

Drive the vehicle in an open area for approximately 30-minutes at a speed over 20 kph (12.5 MPH) while receiving GPS signals.

Notes

Make sure the GPS reception indicator is illuminated on the map screen.

GPS reception indicator

Before Use Screen Quality Adjustment

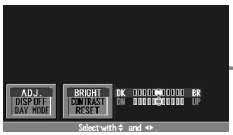
1 VOICE Press and hold

2 ENTER → ENTER

Screen quality adjustment

Open [Display Menu]

Select ADJ.



Screen off

Select DISP OFF

Screen display turns off.
Press any button to return to screen display.

Day / Night mode selector

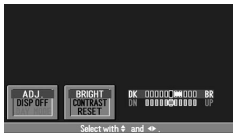
Select DAY MODE / NIGHT MODE

headlights OFF - DAY MODE
headlights ON - NIGHT MODE

When the headlights are on, daytime mode can also be selected (if extra screen brightness is required under certain nighttime conditions). This selection can only be done when the headlights are on.
Press **ENTER** to switch between day and night modes.

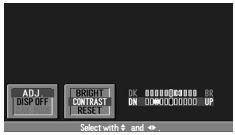
3 ↕ ENTER

BRIGHT → ←**ENTER**→



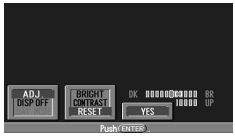
Adjust screen brightness.

CONTRAST → ←**ENTER**→



Adjust screen contrast.

RESET → **ENTER** → **ENTER**



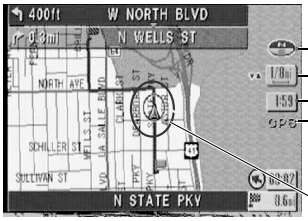
Returns screen to initial settings.

Before Use Understanding Map Display

Current position map
Shows the current position of your vehicle on the scale selected.

Route and flags
When the route has been set, the blue line represents the route and the following two flags appear on the map.

Destination point flag (black/white)
Start point flag (green)



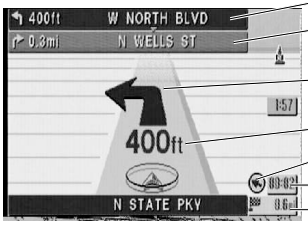
Map orientation
Map scale
Clock
GPS reception indicator
- Lights up when receiving signals from 3 or more satellites.

Vehicle position

POS Changeover

Guide mode map
(en route guidance)

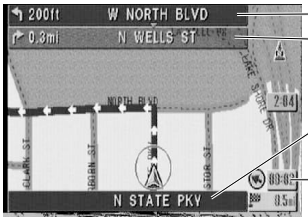
Shows the road you are driving on in an enlarged scale.
- It is necessary to set this function (☞ page 32).



Distance to the next turn
Distance to the turn after the next turn.
Arrow guidance for the next turn
Distance to the next turn
Destination direction
Estimated travel time
Destination distance

Intersection zoom map
(en route guidance)

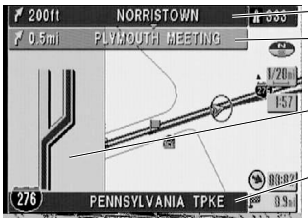
Shows an enlarged map as you approach an intersection.
- It is necessary to set this function (☞ page 32).



Distance to the next turn
Distance to the turn after the next turn.
Current Road Name
Estimated travel time

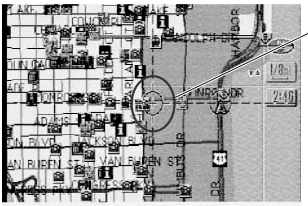
Point of divergence map
(en route guidance)

Shows an approaching point of divergence such as a turning point or exit while on an expressway.



Distance to the next turn
Distance to the turn after the next turn.
Point of divergence map
Current Road Name

Scroll map
Appears when operating ENTER during displaying a current position map.
- This map can be scrolled with the crosshair cursor.



Crosshair cursor
- Move the crosshair cursor to a road, and press **ENTER** to display the road name.

Note
- When the system shows no route available to reach your designated point, the destination may be set near the designated point. If so, please be aware that a point with a destination flag is not the point that you designated as your destination.

Changing the Map Orientation/Scale

Warning

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving**
Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

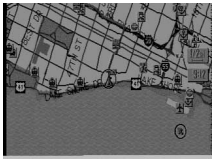
Map orientation

1 **ENTER** **Open the pop up menu**
(while in current position map)

2 **ENTER** **Select** North Up **or** Head Up **and press ENTER**

●North Up :
Geographic north is up.

●Head Up :
The direction you are heading is up.



Map scale

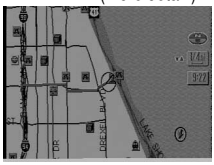
1 **ZOOM**

●The map can be displayed in twelve steps with scales from 1/20mi to 250mi .

●ZOOM OUT: Enlarges the map.

ZOOM

●ZOOM IN: Reduces the map. (more detail.)



Destination Entry and Route Search

●If you would like to go back to your start point, select the [History] in the [Select Destination] Menu, after that, select a green flag icon as a destination.

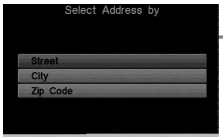
1 MENU → ENTER select Select Destination → ENTER 2 ENTER → ENTER

Routing

Destination by address

Open the [Select Destination] Menu

Select Address



→ Street

→ City

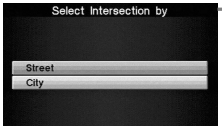
→ Zip Code

Destination by intersection

Select Area

※Default: North Central USA

Select Intersection



→ Street

→ City

Destination by POI

Character entry
(☞ page 22)
To enter the street name, city name, zip code, and other.

Select Point of Interest

Select a destination from the POI categories.

●POI icon chart
(☞ page 23)

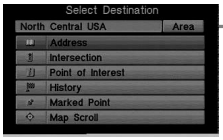
→ City

→ Name

→ Nearest

Destination by history

Open the [Select Destination] Menu



Select History

Destination by a marked point

Select Marked Point

●Refer to page 28 for information about marked points.

Destination by the map

Select Map Scroll

Warnings

- **Do not keep your eyes fixed on the monitor screen or operate the system while driving.** Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location before operating the system.
- Route searches with the navigation system can include roads that you can not drive on and roads that you are prohibited from driving on due to traffic regulations. Please comply with the traffic regulations.

3 ENTER Character entry or selection (☞ page 22) ENTER

4 ENTER ENTER

Enter/Select the street name. → **Select the city name.**

Enter/Select the city name.*1 → **Enter/Select the street name.** → **Select the city name.**

Enter the Zipcode.*2 → **Enter/Select the street name.** → **Select the city name.**

→ **Select the house number.**

*1 The memory stores up to 10 cities visited recently, and these city names can be selected.
*2 Depending on the area,zipcode search may not be possible.

Enter the name of the city where your target intersection is. → **Enter the name of a street that is part of the intersection.** → **Enter the other street name that makes up the intersection.**

Enter the target city name. → **Enter the target name.**

Enter the target name.

(The 20 closest destinations to the current position appear (within a radius of about 30 mile.).)

→ **Select a desired destination from the list.**

Select a destination from the list of recent destinations.
(Up to 50 points including the latest starting point are in the system memory.)

Select a destination from the list of Marked points (Up to 100 points).

Move the crosshair cursor to the destination and press ENTER.

→ **Select** Destination

Search method

Shortest Route
This is the route that reaches the destination in the shortest time.

Avoid Highway
This route reduces the use of highways (if there are highways on the way).

Map
You can designate a destination on the map. (Move the crosshair cursor to the destination.) The following menus will be displayed when ENTER is pressed on the map display.
[Marked Point]
[Destination]
[Nearest POI]··· (☞ page 24)

Marked Point
Marks the destination resulting from the search.

Note

The results from the route search are not always the shortest routes. You cannot always avoid the highways even if the highway is set to [Avoid Highway].
For example, you will be on the highway when your vehicle is on the highway or when your destination exists on the highway.

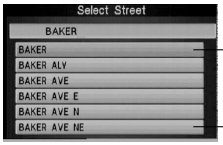
Character Entry

1 ← ENTER → → ENTER 2 ENTER → ENTER

To enter the street name, city name, and other.

Select the first several characters on the screen.

Select your target in the list, and press ENTER



Names of which spelling starts with the entered character appear.

- If a desired name is not in the list, go back to the step 1, and try fewer characters.

BS : Move the cursor to the previous position and delete a character.

OK : The list appears.

- Up to 10 characters can be entered.

■Entry of a street name

Caution: Do not enter the type of street such as ST, AVE, PL, LN, or RD as the search may not perform successfully.

- Examples

Street : 33RD ST

Enter by selecting characters:

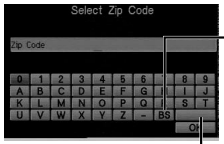
3 3 R D

1 ← ENTER → → ENTER 2 ← ENTER → → ENTER

To enter the zip code, house number, and other.

Select the characters on the screen.

Select OK and press ENTER



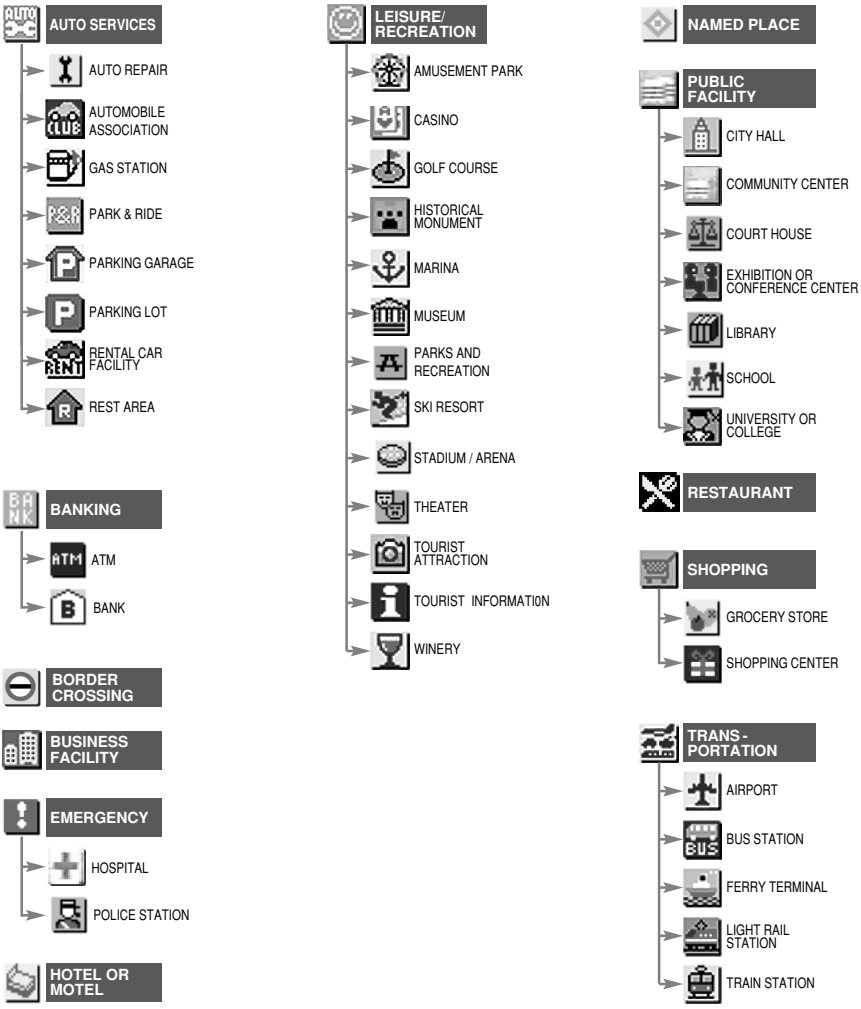
BS : Move the cursor to the previous position and delete a character.

: Space

POI Icons on Maps / Zipcode Entry

■POI (Point of Interest) Icons

The following are POI icons shown on maps.



Direct destination input

Direct destination input

ENTER **Position the cursor on your destination on the map**

Scroll the map and change the map scale if necessary.

→ **ENTER** → **ENTER** **Select** Destination → **ENTER**

→ **Select a route search method** (☞ page 21)

- You can determine whether or not to use a highway if there is a highway within a radius of about 300ft from the crosshair cursor position.
  [Choose Highway]
  Yes : Highway is used.
  No : Highway is not used.

Notes

- A point near the crosshair cursor position can be a destination if there is not a destination point at the specified point.
- A POI icon will be a destination if there is a POI icon close to the crosshair cursor.

Driving to the nearest POI (within a radius of about 6 mile)

ENTER → **ENTER** **Select** Nearest POI → **ENTER**

→ **Select the POI category**

- Icon list (☞ page 23)

→ **Select an icon from the list that you would like to go to.**

- The 20 closest destinations to your current position appear.

→ **Select a route search method** (☞ page21)

Note

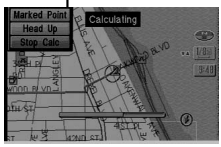
When there is no POI that you would like to go to, then [POI Not Found] will appear.

After routing

Route search cancellation

During route search

ENTER → ENTER Select Stop Calc → ENTER



Whole route display (while on current position map)

After route search

ENTER → ENTER Select Route Preview → ENTER

Delete destination (while on current position map)

ENTER → ENTER Select Delete Dest. → ENTER

Route Changes

●This function allows you to search for alternative routes to the same destination.

1 ENTER

2 ENTER → ENTER

Alternative route search

Avoid streets

Via point

Detour distance

Open Pop up Menu
(while on current position map)

→ Detour

→ Alt Route

→ Avoid Streets

■Select the first point that you would like to go by on the way to your destination.

→ Via Point

→ Detour 5 Miles

Routing

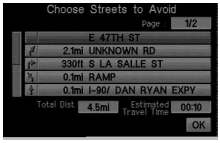
Warning

■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving**
Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

Select a route

●Maximum 3 routes (including the current one) appear.

Select streets to avoid



OK

●Streets to avoid become gray

■**Select the second and following via points**

Add

When adding a new point between the current position and the first point

When adding a new point between the first point and the destination

Use the point search and entry by following the same steps in"Destination Entry and Route Search"
(☞ page 20, 21)

■**Delete a via point**

Delete

Select a point that you would like to delete.

●Refer to page 32 for designating the detour distance.

Notes

●The detour may be longer than the distance you specified.
●You can set up to five Via points. If you try to add a sixth point, then the [Delete] menu opens. It will prompt you to delete a currently selected point.
●If you add a Via point near your current position when adding points, then Avoid Highway may not be selected with the route search method in some cases.

Marked Point

- Up to 100 points can be stored.
- Each stored point is memorized with its name and icon, and shown on the map.

1 POS / ENTER **2** ENTER

Marking your current position

Press POS to display the current position

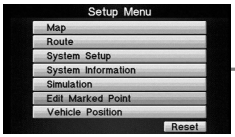
Marking any point on the map

Move ENTER to position the crosshair cursor on a point to be marked

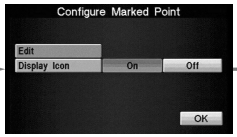
1 MENU → ENTER select Setup Menu → ENTER **2** ENTER → ENTER

Changing a marked point icon

Open [Setup Menu]



Select Edit Marked Point



Select Edit

Renaming a marked point (User POI)

Deleting a marked point

3 ENTER → ENTER

→ Marked Point

Warning

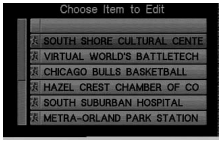
■**Stop your vehicle before doing the following operations:**
Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving.
Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

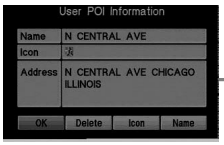
Note

If the same point is stored in “Marking Your Current Position”, then it is registered with one local name on the list. If the same point is stored in different processes, for example, as in “Marking Your Current Position” and “Marking Any Point on the Map”, then two local names, identical to each other, will be shown on the list.

3 ← ENTER → → ENTER

Select a marked point from the list



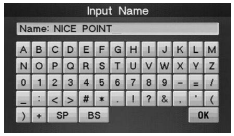


●Information about the marked point appears.

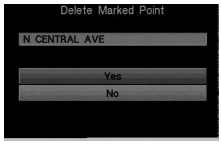
Icon → **Select an icon**

→ OK

Name → **Enter a name** → OK



Delete → Yes



Setup

●The setting is a variable to suit your preferences.

Warning

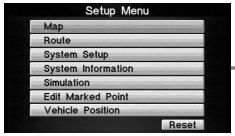
■Stop your vehicle before the following operations

Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident.
Always stop the vehicle in a safe location and put the parking brake on before operating the system.

1 MENU → ENTER select Setup Menu → ENTER 2 ENTER → ENTER

: Default

Open [Setup Menu]



- **Map** — Map setting (☞ page 31)
- **Route** — Route setting (☞ page 32)
- **System Setup** — System setting (☞ page 33)
- **System Information**
  - **Version** (☞ page 9)
    Map area, Map disc (DVD) version and software version appear.
- **Simulation**
  You can check your route from the starting point to the destination.
  This function is available after route setup is performed.
- **Edit Marked Point** (☞ page 28)
  - **Edit** (☞ page 28)
    You can change and delete marked points.
  - **Display Icon** — **On** / **Off**
    ●On : Icons on a map.
    ●Off : No icon on a map.
- **Vehicle Position** — When the actual position of your vehicle is different from the vehicle position on a map
  - ENTER — Change the vehicle position.
  - ← ENTER → — Change the vehicle direction.
    → : Rotation in a clockwise direction by 11.25°.
    ← : Rotation in a counterclockwise direction by 11.25°.

■Restoring defaults

Reset → ENTER

User setting

Setup

Map

1 MENU → ENTER select Setup Menu → ENTER

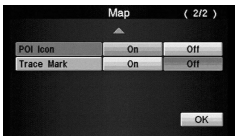
2 ENTER select Map → ENTER

3 ENTER → OK → ENTER

: Default

Open the [Map] screen

ENTER



■Color (daytime)

Day Color | Green | Beige | Black

■Color (nighttime)

Night Color | Green | Beige | Black

■Map Direction

Map Direction | North Up | Head Up

- North Up : Geographic north is always up on the map.
- Head Up : The direction you are going is always up on the map.

■Vehicle Position

Vehicle Position | Center | Off Ctr

- Center : The current vehicle position indicator is displayed in the center of the screen.
- Off Ctr : The current vehicle position indicator is displayed at the bottom of the screen.

■POI Icon

POI Icon | On | Off

- On : POI icons appear in their marked positions.
- Off : POI icons do not appear in their marked positions.

■Trace Mark

Trace Mark | On | Off

- On : The traced route is marked.
- Off : The traced route is not marked.

■How to exit

OK → ENTER

Setup

Route

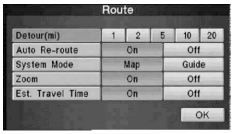
1 MENU → ENTER select Setup Menu → ENTER

2 ENTER select Route → ENTER

3 ← ENTER → OK → ENTER

: Default

Open the [Route] screen



■Detour (mile/km)

Detour(mi) | 1 | 2 | 5 | 10 | 20

The detouring distance is specified.

- ●1 : 1 mile/km
- ●2 : 2 mile/km
- ●5 : 5 mile/km
- ●10 : 10 mile/km
- ●20 : 20 mile/km

■Auto Re-route

Auto Re-route | On | Off

- ●On : Searching for another route is activated to go back to the original route when you drive away from it.
- ●Off : No search takes place.

Usually, this function should be set to [ON].

■System Mode

System Mode | Map | Guide

- ●Map : The map mode
- ●Guide : The guide mode map

■Zoom

Zoom | On | Off

- ●On : The intersection zoom map appears automatically when approaching an intersection.
- ●Off : The zoom function is not activated when approaching an intersection.

■Estimated Travel Time

Est. Travel Time | On | Off

- ●On : The estimated travel time is announced by voice guidance, and displayed on the current vehicle map.
- ●Off : No announce

■How to exit

OK → ENTER

Setup

System

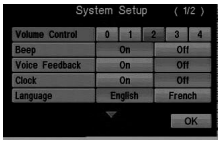
1 MENU → ENTER ↑↓ select Setup Menu → ENTER

2 ENTER ↑↓ select System Setup → ENTER

3 ← ENTER → OK → ENTER

: Default

Open the [System Setup] screen



ENTER ↑↓

■Volume control for voice guidance (5 levels)

Volume Control	0	1	2	3	4

Adjust the volume control at the monitor as well.

■Beep

Beep	On	Off

- On : Beep activated when pressing buttons in the remote control.
- Off : Beep inactivated when pressing buttons in the remote control.

■Voice repetition

Voice Feedback	On	Off

- On : Initiates vocal guidance.
- Off : Initiates no vocal guidance.

■Clock

Clock	On	Off

■Language

Language	English	French

■Changeover meter/mile

Meter/Mile Switch	Metric	English

- Metric : Meters
- English : Miles

■Daylight Saving Time(Summer Time)

DST	On	Off

- On : Daylight saving time mode is enabled. (The navigation internal clock gains 1 hour).
- Off : Daylight saving time mode is disabled.

■How to exit

OK → ENTER

Precautions/System Performance

Voice Guidance

Warnings

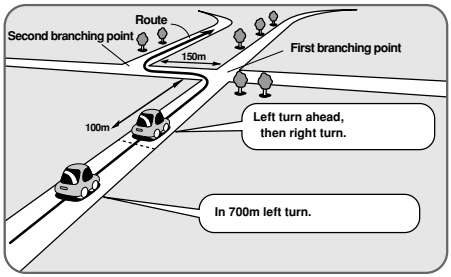
- The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable at times to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.
- Your route may sometimes include roads that are not open to vehicles or are closed due to traffic regulations. Please comply with the local traffic regulations.
- Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

Voice guidance has the following functions:

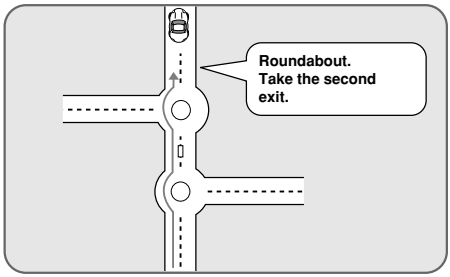
■Intersection guidance

- The system voice announces the distance to an upcoming turn and the turning direction.
  ➡ This guidance function is automatic. Therefore, you do not have to set it, and it cannot be disabled.

- The system vocally announces the distance to an upcoming highway branching point or junction.
  ➡ This guidance function can be set in the [Setup menu]. For details, see page 32.



When two intersections are close together, the voice guidance may be late.

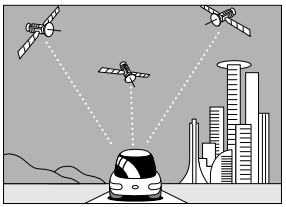


When two roundabouts are close together, the voice guidance for the second may be late.

Automatic Distance Correction

- The mobile navigation system calculates and indicates the vehicle position on the map by multiplying the speed pulse emitted by the vehicle with a correction coefficient.
  The speed pulse emitted varies with the type of vehicle and with differences in tire pressure and wear.
  A different correction coefficient might even be required for the same type of vehicle.
- Using a spare tire in place of the regular one may cause vehicle position deviations.

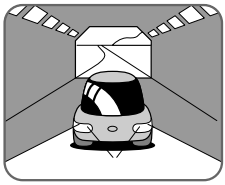
GPS

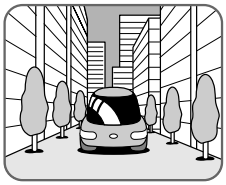


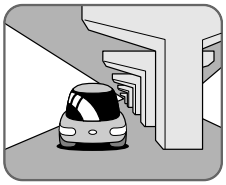
GPS is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Department of Defense. The Mobile Navigation System uses input from three or more satellites and calculates the vehicle position based on the principle of triangulation.
The positioning accuracy of the system corresponds to the error display of the GPS which is from about 30 to 200 meters.

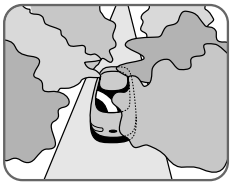
- If you are using the system for the first time, or if you have not used it for some time, it takes about 5 minutes (or about 2 minutes in open areas) to calculate your vehicle's position.

■GPS signal reception is poor in the following places


In tunnels


Among high-rise buildings


Under elevated roads

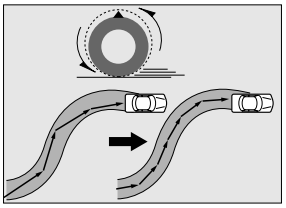

In wooded areas

- The GPS satellites are controlled by the U.S. Defense Department, which may intentionally lower positioning accuracy. In such cases, there may be vehicle position deviations.
- There may be vehicle position deviations for some time until GPS signals are received after turning on the ignition.

Map Matching

This function compares your vehicle's tracking data with the road data on the map disc, applies dead reckoning to determine the road you are driving on, and displays your vehicle on that road on the map.

- Intelligent map matching addresses the following problems to achieve high accuracy in vehicle positioning.



Position Correction for Elevated Roads
Position accuracy is improved by detecting if the vehicle is running on or under an elevated road.

Position Correction for Parking Garages
Position accuracy is improved by detecting if the vehicle is driving in an elevated or underground parking garage.

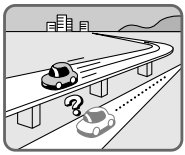
High-precision Gyrosensor
A gyro detects turns with an accuracy of 0.05˚ per second. Combined with a speed sensor, it enables the system to display the current vehicle position even where GPS signals may be blocked.

- Using a spare tire in place of the regular one may cause vehicle position deviations.
- Any difference between the direction which your vehicle actually travels and that shown on the map is automatically eliminated by azimuth correction.

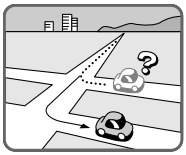
Precautions/System Performance

Positioning Accuracy

In the following situations, your vehicle position may not be displayed correctly on the map. But, as you keep driving, your vehicle position will be automatically corrected utilizing map matching and GPS data.

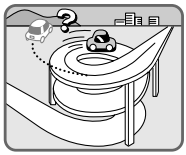


Running on an elevated road

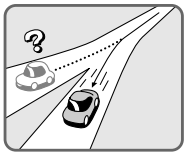


Making a turn after driving on a long straight road

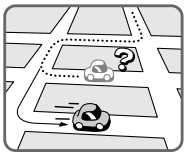
Running on a steep mountain road



Running on a spiral road

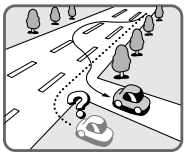


Entering an intersection where a road branches off at a small angle

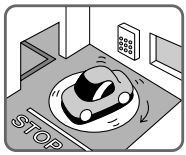


Running on gridiron layout of roads

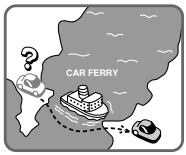
Running on a slippery road with tire chains



Snaking on a wide road



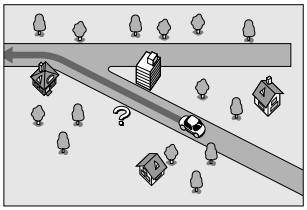
When your vehicle is on a turntable with the ignition turned off



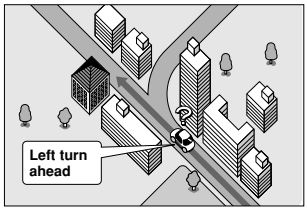
After getting off a ferryboat or vehicle train

Route Guide

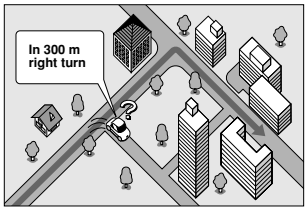
Although you may encounter the following problems in route guide, there is nothing wrong with the system.



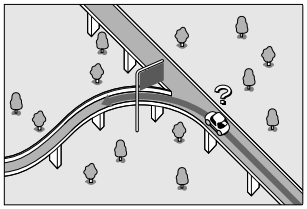
For certain intersection shapes, the upcoming turn or the name of the intersection may not be announced.



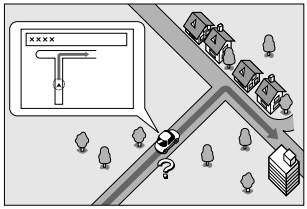
For certain intersection shapes, you may be prompted to turn right or left When you should actually stay on the same road.



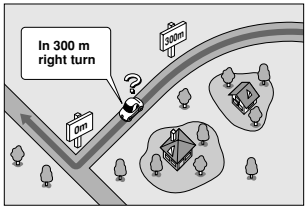
Voice guidance for the planned route may continue even after you have deviated from that route such as having turned too early.



Some points where the road divides on highways or toll roads may not be displayed or announced.



The Intersection Zoom Map may not always agree with the actual shape of the intersection.

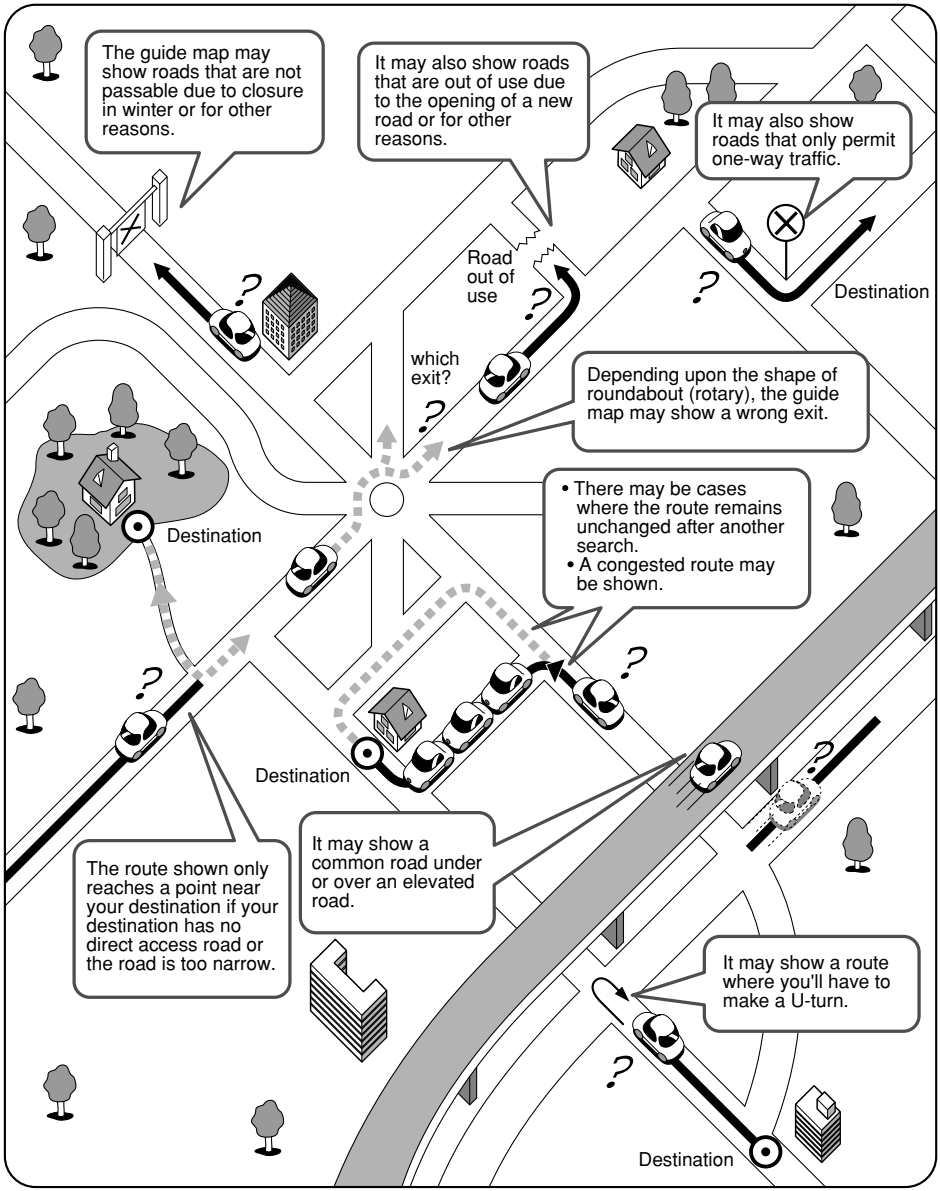


The announced distance to an upcoming turn may differ slightly from reality.

Warning The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.

Route Search

Although you may encounter the following problems in a route search, there is nothing wrong with the system.


The guide map may show roads that are not passable due to closure in winter or for other reasons.
It may also show roads that are out of use due to the opening of a new road or for other reasons.
It may also show roads that only permit one-way traffic.
Road out of use
Destination
which exit?
Depending upon the shape of roundabout (rotary), the guide map may show a wrong exit.
Destination
• There may be cases where the route remains unchanged after another search.
• A congested route may be shown.
Destination
The route shown only reaches a point near your destination if your destination has no direct access road or the road is too narrow.
It may show a common road under or over an elevated road.
It may show a route where you'll have to make a U-turn.
Destination

Troubleshooting Verification First

Note

There may be some problems due to operational errors or mistakes. Please read this manual again and verify that there really is a problem before calling an Authorized Mazda Dealer to ask for repair services.

Symptom	Check point
No picture	●Check if a fuse has been blown. ➡ Consult an Authorized Mazda Dealer. ●Check if the voltage level of the vehicle battery is low. ➡ Recharge the battery or change batteries.
The vehicle position is not correct	●Check if the vehicle position changed when ACC was set to OFF. When, for example, ●The vehicle was transported by a ferry boat. ●The vehicle was rotated on a turn table in a parking lot. ●The vehicle was transported by a tow track or other such vehicle. ➡ Drive the vehicle for a while where you are receiving GPS signals.

Symptom	Check point
No GPS symbols are displayed	● GPS signals may not be received because of obstructions. After moving the vehicle away from obstructions, the GPS signals can be received.
The vehicle position is not displayed	● Check if the mode is set to the map mode. ➡ Press **POS**
No voice guidance	● Check if the volume control for the voice guidance is adjusted to zero. ● Check if the vehicle is off the route. ➡ Repeat the route search while checking the route guide screen. ● Check if you are driving the vehicle in the wrong direction on the route. ➡ Repeat the route search checking the direction of the destination.
Buttons in the remote control do not beep	● Check if [Beep] is set to [Off] (☞ page 33).
No map displayed (blank screen)	● Check if the disc is wet, scratched, or dewy.

Troubleshooting Error Messages

Error message	Solution
Route Calculation failed	●Change your destination and route, and repeat the route search.
Cannot Read Disc	●The disc is wet, dirty, scratched, or upside down, or the disc cannot be played with this unit. ➡ Eject the disc and check it.
Accessing Data Please wait....	●When the message appears in the opening screen: ➡ Check if the map disc is wet from condensation, scratched, or dirty. If the same message is displayed when this operation is repeated after checking, then consult an Authorized Mazda Dealer. ●When the message appears during operation: ➡ If the same message appears after repeating the operation, then consult an Authorized Mazda Dealer.
Please Select another point. * When entering your destination Unable to select Destination.	●Change your destination and route, and repeat the route search.

Maintenance

Care of the Product

■Cleaning this product

Use a dry, soft cloth to wipe it.

■Cautions for cleaning

Never use solvents such as benzene and thinners they may mar the surface of the unit.

■Map disc

If you require the latest map disc, consult an Authorized Mazda Dealer. For latest map disc information, please refer to "Map Related Issues" on page 9.

Handling and Care of Map Discs

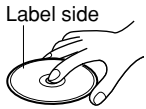
Caution

■Map Disc

This unit supports only DVD-SDAL-formatted map disc (SEAMLESS) that NAVTECH has specifically designed for this unit. Mazda shall not be liable for any damages caused by using other formatted discs. Make sure to specify that a disc should be exclusively used for this product when you purchase it.

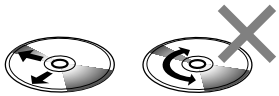
■How to hold the disc

- Do not touch the underside of the disc.
- Do not make scratches on the disc.
- Do not bend the disc.
- When not in use, keep the disc in the case.



■Disc Cleaning

- Use a dry, soft cloth to wipe from the center outward.



■Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- In dirty, dusty and damp areas
- On seats and dashboards